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APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[AGGCTGTCCCACCCACCATCTGCACCCGCTGCAGCGCCCGCGCCCTGTCCCAGCGCCGT
 AGTCGTCATTTGTAGCCCGCCTGCCGCTCCCGGGGACCCGATCCTACCCCTGGGTGCGGGG
 CAGAGCGGGCATGGCCCGTCTGGGGACCGCCTGCCCTGCGCTGGCGCTGGCCCTGGCACT
 TGTGGCGGTGGCCCTGGCTGGAGTCAGAGCCCAGGGCGCAGCCTTCGAGGAGCCTGACTA
 TTACAGCCAGGAGCTCTGGCGGGCGCGGGCGCTATTATGGGCATCCGGAGCCTGAGCCGGA
 GCCGGAGCTCTTCTCGCCCTCAATGCA] TGAAGACCTTAGGGTGGAGGAGCAGGAACAGC
AGGAGCCGACCCAGCAGGGCCACAGAACTCCCAAGAAGGCCATCAAGCCCAAGAAGGCTC
CCAA [GAGGGAGAACTTAGTTGCAGAGACGCTCCACCAG] GTAAAAATAGCAACAGAAA
 AGGCAGAAAGAAGCAAGAATCTTGAGAAAAGCTGCCAGTGATGACCATGGTGTCCCTGTGGC
 TCATGAGGATGTCAGAGAGAGTTGCCACCTCTTGGTCTGGAAACATTAAAAATCACAGA
 CTTCCAGCTGCATGCTTCCACATCGAAGCGTTATGGCCTGGGAGCCACCGGGGGAGACT
 CAACATCCAGGCAGGCATTAATGAAAATGACTTTTACGATGGGGCTTGGTGTGCTGGTAG
 GAACGACTTGCATCAGTGGATCGAAGTGGATGCCCGGCGCCTGACCAAGTTCACAGGGGT
 CATTACCCAAGGAAGGAAGCTCTCTCTGGCTGAGTGACTGGGTGACATCCTATAAAGTCAT
 GGTGAGCAATGACAGCCACACATGGGTACTGTGAAGAATGGATCTGGCGACATGATATT
 TGAAGGAAACAGTGAGAAGGAGATTCTGTGCTCAATGAGCTGCCAGTCCCATGGTGGC
 CCGCTACATTTCGCATAAACCCCTCAGTCTTGGTTTGATAACGGGAGCATCTGCATGAGGAT
 GGAGATCTTGGGCTGCCCCTGCGGATCCTAATAACTATTATCACCGACGTAATGAGAT
 GACCACCACGGATGACCTGGATTTTAAGCACCACAACATAAGGAAATGCGCCAGTTGAT
 GAAGGTTGTCAATGAAATGTGCCCCAATATTACCAGGATTTACAACATTGGCAAAAGCCA
 CCAGGGCCTGAAATTGTATGCGGTAGAGATCTCTGACCATCCTGGGGAAACATGAAGTTGG
 TGAGCCCGAGTTCCACTACATCGCAGGGGCCCACGGCAATGAGGTTCTGGGACGAGAAGT
 GCTGCTGCTGCTGCTGCACTTCCCTCTGCCAGGAATACTCGGCGCAGAACGCACGCATCCT
 CCGCTTGGTGGAGGAGACTCGAATCCACATTCTACCCTCCCTCAATCCTGATGGCTATGA
 GAAGGCCTATGAAGGAGGTTCCGAGTTGGGAGGCTGGTCCCTGGGACGTTGGACCCATGA
 TGGCATCGATATCAACAACAACCTTTCCGGATTTAAACTCGCTGCTCTGGGAGGCAGAGGA
 CCAGCAGAATGCCCCAAGGAAGGTCCCCAACCACTACATTGCCATCCCTGAGTGGTTTTCT
 GTCTGAGAATGCCACAGTGGCCACAGAGACCAGAGCCGTCATCGCCTGGATGGAGAAGAT
 CCCGTTTGTGCTGGGAGGCAACCTACAGGGGGGTGAGCTGGTCTGTCATACCCCTATGA
 CATGGTGCCTGCTTCTGTGGAAGACCCAGGAGCACACCCCAACACCTGATGATCATGTGTT
 CCGCTGGCTGGCGTATTCTACGCTTCACTACCGCTCATGACAGATGCCAGGAGGCG
 AGTGTGCCACACGGAAGATTTTCAGAAGGAGGAGGGCACCGTCAATGGGGCTTCTTGGCA
 CACAGTGGCTGGAAGTCTAAACGATTTTACGCTACCTCCATACAACTGCTTTGAGCTGTC
 CATCTACGTGGGCTGTGATAAATACCCACACGAGAGCGAGCTGCCGGAGGAATGGGAGAA
 TAACCGGAGTCTCTGATTGTGTTCATGGAGCAGGTTTCATCGAGGCATCAAAGGCATAGT
 GAGAGATTTACAAGGGAAAGGGATTTCAAATGCTGTCTCTGTGGAAGGTGTTAACCA
 TGACATCCGGACAGCCAGCGATGGGGATTACTGGCGTCTACTGAACCTGGCGAATATGT
 GGTCACAGCCAAGGCGGAAGGCTTTATCACTTCCACCAAGAAGTGCATGGTTGGCTATGA
 TATGGGAGCTACTCGGTGTGACTTCAACCTCACAAAGACCAACCTGGCTAGGATAAGAGA
 AATTATGGAGACATTTGGGAAGCAGCCTGTGACCTACCTCCAGGCGCCTGAAGCTGCG
 GGGACGGAAAAGGCGGCAGCGTGGGTGACCTGTGCGGACACTTGAGACATACCCAGACC
 GTGCAAATAAAAAATCCACTCCAGTAGTAAAAAAA (SEQ ID NO:1)

FIGURE 2A

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

Gene Sequence Structure

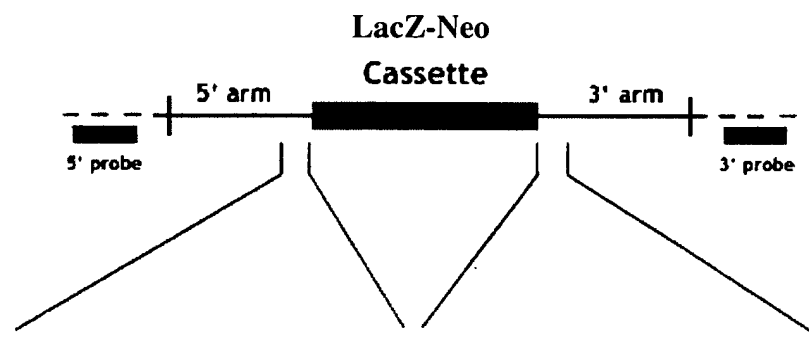
Size of full-length
cDNA: 2490 bp

327 bp Sequence Deleted 422 bp



Targeting Vector*
(genomic sequence)
Construct Number: 2825

Arm Length:
5': 4 kb
3': 1.5 kb



———— Targeting Vector
- - - - - Endogenous Locus

* Not drawn to scale

<p>5' >GGCATGGCCCGTCTGGGGACC GCCTGCCCCGCGCTGGCGCTGGCC CTGGCACTTGTGGCGGTGGCCCTG GCTGGAGTCAGAGCCCAGGGCGCA GCC'TTCGAGGAGCCTGACTATTAC AGCCAGGAGCTCTGGCGGCGCGGG CGCTATTATGGGCATCCGGAGCCT GAGCCGGAGCCGGAGCTCTTCTCG CCTTCAATGCA<3' (SEQ ID NO:3)</p>	<p>5' >GAGGGAGAAGTTAGTTGCAGA GACGCCCTCCACCAGGTAACTTTGT CATCGGGCAGCCCGAGGGGGCGCC AGCGATCGTGGCAC'TCCAGGGGAC ACCTGGCTTCCAGTATGTTTTCTT GAGTGAGCCCAGCCAAAGTCCTGT GGTGCCTGTGTTATTCCTAGAGA CTACATCTGAGCTAAGTTCAGCTT TCTCTCCCTGC<3' (SEQ ID NO:4)</p>
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FIGURE 2B

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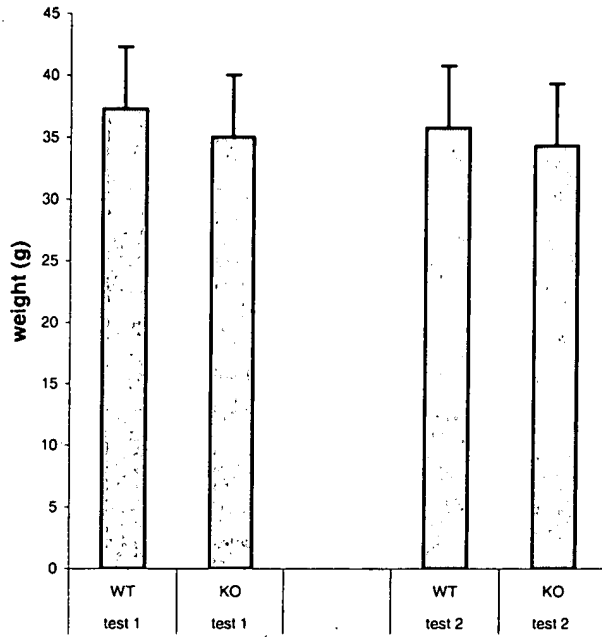


FIGURE 3

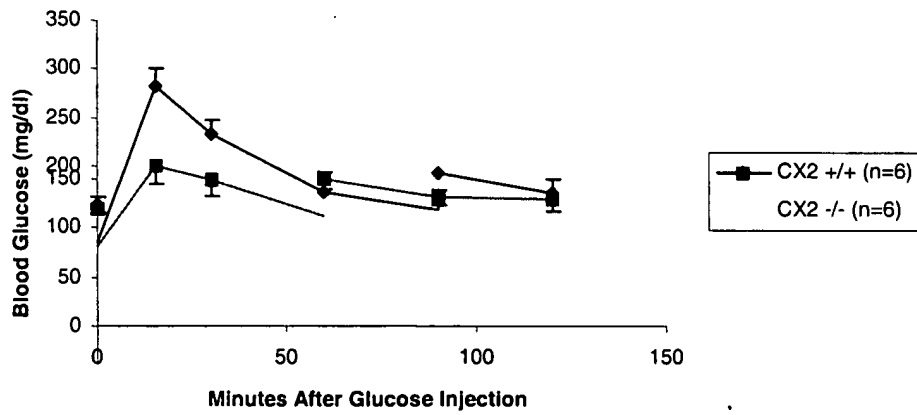


FIGURE 4